

Fig. 1

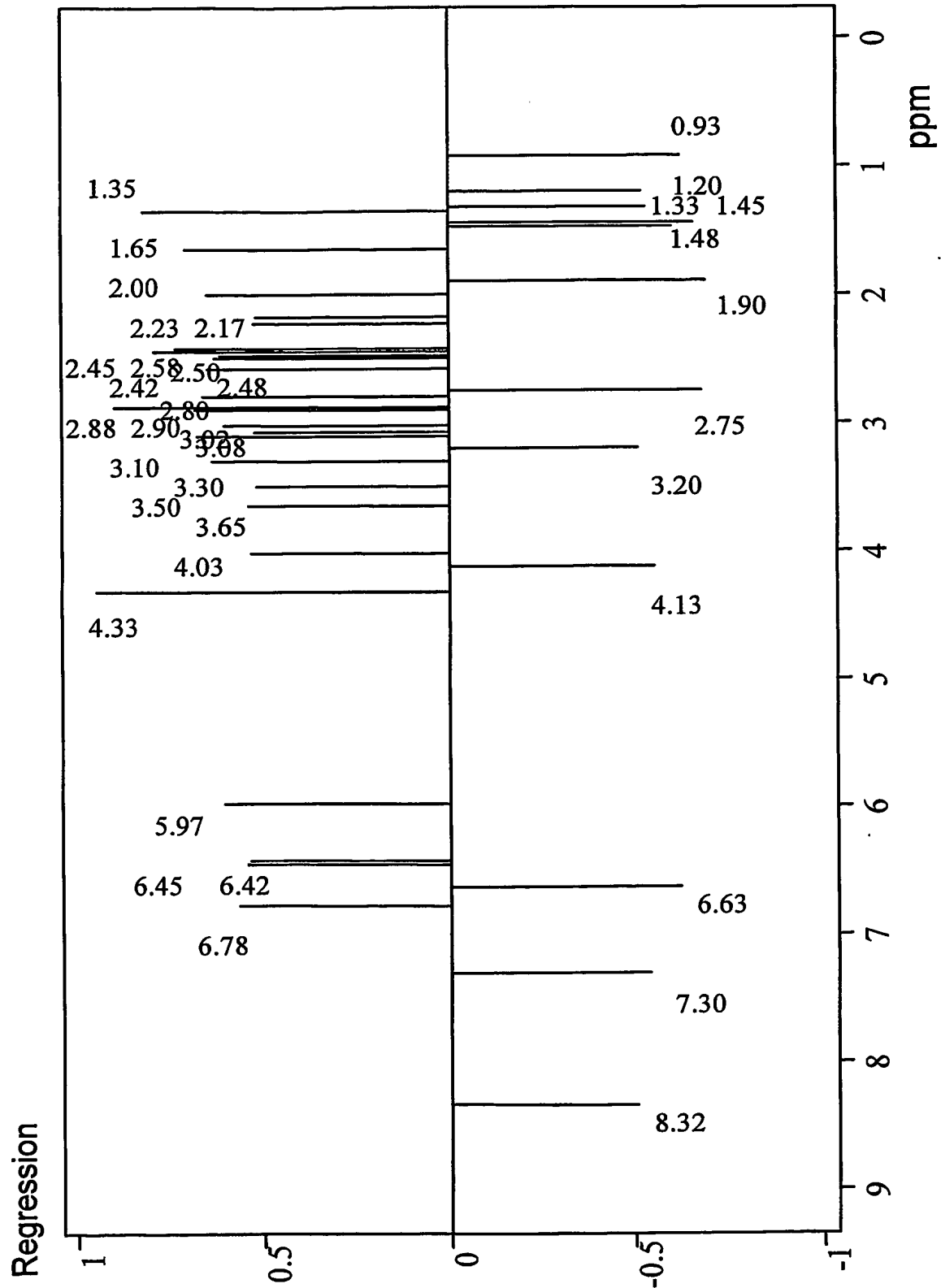


Fig. 2

Tabel 3. Characteristic metabolites applicable as biomarker(s) for Osteoarthritis.

Compound	δ (ppm \pm 0.05)	Designation	Multiplicity
Lactate	1.35	CH ₃	Doublet
	4.05	CH	Quartet
Malate	3.13	CH ₂	Doublet
	3.23	CH ₂	Doublet
	4.33	CH	Doublet doublet
β -alanine	2.40	CH ₂	Triplet
	2.88	CH ₂	Triplet
Hypoxanthine	8.32	CH	Doublet
3,4-Dihydroxymandelate	6.83	Cyclic H	Doublet
	6.90	Cyclic H	Singlet
	6.95	Cyclic H	Doublet
3-Hydroxycinnamic acid (3-hydroxykaneelzuur)	7.03	CH	Singlet
	7.15	Cyclic H	Doublet
Alanine	1.48	CH ₃	Doublet
	4.13	CH	Quartet
Asparagine	2.86	CH ₂	Multiplet
	2.96	CH ₂	Multiplet
N-acetyl asparate	2.02	CH ₃	Singlet
	2.56	CH ₂	Multiplet
	2.74	CH ₂	Multiplet
	4.40	CH	Multiplet
Aliphatic region	2.0-2.9		
Alkene region	3.0-4.7		
(Hetero)aromatic region	6.3-7.5		